NC/QC/YPD/2020-21/BP-C1 Date: 04-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**152 min**	Shall not be less than 30 min
2	Final setting time	**281 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.11 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.96 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.72 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd B Cross Rd Ch: 30.00m to Ch: 45.00m

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Page No. 1/1,

Assistant Executive Engineer
Yelahanka Zone
BBMP, Bangalore - 92

NC/QC/YPD/2020-21/BP-PCC1 **Date: 04-06-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**62.10**	0 -20	30- 70
10mm	**28.40**	0 -5	10- 35
4.75mm	**3.25**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**97.30**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**85.75**	60-95	75-100	85-100	
01.18	**71.10**	30-70	55-90	75-100	
600.mic	**48.20**	15-34	35-59	60-79	
300.mic	**21.85**	5-20	8-30	12-40	
150.mic	**6.40**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd B Cross Rd Ch: 30.00m to Ch: 45.00m

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Asst. Executive Engineer
Project Division

NEWZEN CONSULTANTS Bangalore

NC/QC/YPD/2020-21/BP-C2 Date: 07-06-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**149 min**	Shall not be less than 30 min
2	Final setting time	**281 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.04 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.09 mm**	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	**28.85 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site 2nd Cross Rd(From Dead End) Ch: 22.80m to Ch: 25.80m

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NEWZEN CONSULTANT Bangalore

Asst. Executive Engineer
Project Division
Yelahanka
BBMP, Bangalore

NC/QC/YPD/2020-21/BP-PCC2 Date: 07-06-2021

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**58.35**	0 -20	30- 70
10mm	**15.90**	0 -5	10- 35
4.75mm	**4.55**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**95.55**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**82.10**	60-95	75-100	85-100	
01.18	**68.40**	30-70	55-90	75-100	
600.mic	**39.95**	15-34	35-59	60-79	
300.mic	**25.60**	5-20	8-30	12-40	
150.mic	**7.25**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd Cross Rd(From Dead End) Ch: 22.80m to Ch: 25.80m

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NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/BP-CE1 **Date: 11-06-2021**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**155 min**	Shall not be less than 30 min
2	Final setting time	**279 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.99 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.91 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	**28.52 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS

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NEWZEN CONSULTANT ★ Bangalore ★

NC/QC/YPD/2020-21/BP-FA2 Date: 11-06-2021

1. TESTING OF FINE AGGREGATES :

Sub: Testing of Fine Aggregates.

{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size,mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -II	
04.75	**96.70**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**89.10**	60-95	75-100	85-100	
01.18	**74.65**	30-70	55-90	75-100	
600. mic	**41.30**	15.34	35-59	60-79	
300.mic	**22.90**	5-20	8-30	12-40	
150.mic	**6.85**	0-10	0-10	0-10	

TABLE 1.2 :

Sl No	Test Conducted	Sample	Results	**Requirements** as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Bulking of Sand	001	**17.61 %**	-----
2	Silt Content	----	**0.59 %**	Not more than 8%
3	Specific Gravity	----	**2.61**	-------

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 2nd A Cross Rd LHS

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Page No. 1/1,

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2020-21/BP-CA2 Date: 11-06-2021

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.

{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	**100.00**	100.00	100.00
20 mm	**96.55**	85-100	90 - 100
10 mm	**42.80**	0 - 20	25 - 55
4.75 mm	**3.70**	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	**Requirements** as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	**25.18%**	Not to exceed 25 %
2.	Crushing value	**28.49 %**	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

The result of the materials tested meets the standards and hence can be used for the work.

Sample Collected Site : 2nd A Cross Rd LHS

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NC/QC/YPD/2020-21/BP-S1

Date: 20-05-2021

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10, 12, 16,20 and 25 mm **TMT Steel.**
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.395**	0.363	**0.624**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**559.0**	500.0	**558.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.30**	12.00	**19.20**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**636.0**	545.0	**637.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : GLR Tank

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

Date: 20-05-2021

TABLE – 2

SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**12.0 mm**	12.0 mm	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.893**	0.834	**1.584**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**555.0**	500.0	**560.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.4**	12.00	**19.10**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**624.0**	545.0	**641.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : GLR Tank

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

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NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA,
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EMAIL:newzen576@gmail.com

Date: 20-05-2021

TABLE – 3

SL No	Details	For 20 mm		For 25 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**20.0 mm**	20.0 mm	**25.0 mm**	25.0 mm
02	Observed Wt/m Length **Kg/m**	**2.470**	2.366	**3.850**	3.697
03	Proof stress/Yield stress, fy , **N/mm^2**	**554.0**	500.0	**561.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.50**	12.00	**19.00**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**623.0**	545.0	**641.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : GLR Tank

Assistant Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/BP-S2 **Date: 11-06-2021**

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 8, 10, 12, 20 and 25 mm **TMT Steel.**
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

TABLE – 1

SL No	Details	For 8 mm		For 10 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**8.0 mm**	8.0 mm	**10.0 mm**	10.0 mm
02	Observed Wt/m Length **Kg/m**	**0.395**	0.363	**0.624**	0.567
03	Proof stress/Yield stress, fy , **N/mm^2**	**560.0**	500.0	**560.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**19.50**	12.00	**19.50**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**638.0**	545.0	**638.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT ★ Bangalore ★

Date: 11-06-2021

TABLE – 2

SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	**Test Results**	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**12.0 mm**	12.0 mm	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.893**	0.834	**1.584**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**556.0**	500.0	**562.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.70**	12.00	**19.30**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**625.0**	545.0	**642.0**	545.0

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : GLR Tank

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

NEWZEN CONSULTANT Bangalore

NEWZEN CONSULTANT BANGALORE, #13,10TH MAIN ROAD 2ND CROSS JNANAJYOTHI NAGARA, JNANABHARATHI, BANGALORE-560056. CELL NO: +91 8792620231, 080 23240187
EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/BP-CB1

Date: 22-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-06-21	22-06-21	07	22500	360	16.00	16.37
	002	"	"	"	"	375	16.67	
	003	"	"	"	"	370	16.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch: 0.00m to Ch: 15.00m

Page No. 1/1,

Executive Engineer
Project Division

NEWZEN CONSULTANT Bangalore

NC/QC/YPD/2020-21/BP-CB2

Date: 23-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	16-06-21	23-06-21	07	22500	365	16.22	**16.59**
	002	"	"	"	"	380	16.89	
	003	"	"	"	"	375	16.67	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Maruthi Nilaya House Rd Ch:11.90m to Ch: 32.00m

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

NEWZEN CONSULTANTS Bangalore

NC/QC/YPD/2020-21/BP-CB3

Date: 28-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-06-21	28-06-21	07	22500	360	16.00	**16.22**
	002	"	"	"	"	370	16.44	
	003	"	"	"	"	365	16.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd B Cross Rd Ch: 45.00m to Ch: 50.80m

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

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NC/QC/YPD/2020-21/BP-CB4 Date: 29-06-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-06-21	29-06-21	07	22500	350	15.56	**15.93**
	002	"	"	"	"	365	16.22	
	003	"	"	"	"	360	16.00	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch:15.00m to Ch: 30.00m

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EMAIL:newzen576@gmail.com

NC/QC/YPD/2020-21/BP-CB1A

Date: 13-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-06-21	13-07-21	28	22500	505	22.44	**22.52**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch: 0.00m to Ch: 15.00m

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Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore

NEWZEN CONSULTANTS Bangalore

NC/QC/YPD/2020-21/BP-CB2A Date: 14-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/ mm^2)	Avg. Value
1	001	16-06-21	14-07-21	28	22500	505	22.44	**22.15**
	002	"	"	"	"	490	21.78	
	003	"	"	"	"	500	22.22	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : Maruthi Nilaya House Rd Ch:11.90m to Ch: 32.00m

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NC/QC/YPD/2020-21/BP-CB3A Date: 19-07-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	21-06-21	19-07-21	28	22500	500	22.22	**22.37**
	002	"	"	"	"	515	22.89	
	003	"	"	"	"	495	22.00	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd B Cross Rd Ch: 45.00m to Ch: 50.80m

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NC/QC/YPD/2020-21/BP-CB4A **Date: 20-07-2021**

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	22-06-21	20-07-21	28	22500	490	21.78	**22.30**
	002	"	"	"	"	510	22.67	
	003	"	"	"	"	505	22.44	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch:15.00m to Ch: 30.00m

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NC/QC/YPD/2020-21/BP -SB1 Date: 04-08-2021

1. TEST REPORT ON PRE –CAST SOLID BLOCKS:

Sub: Testing of Pre-Cast Solid Block- Compressive strength.

{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}

Ref.: Material testing/PMC/20-21,

Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.

Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen **mm**	Details	Cross Sectional Area **mm^2**	Maximum Load in **KN**	Compressive Strength **N/ mm^2**	**Average Compressive Strength N/ mm^2**
1	400 X 150 X 200	**Solid**	60000	275	4.58	**4.69**
2	,,	,,	60000	290	4.83	
3	,,	,,	60000	280	4.67	

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NC/QC/YPD/2020-21/BP-C5 Date: 18-08-2021

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
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Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	**166 min**	Shall not be less than 30 min
2	Final setting time	**282 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**1.96 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**2.02 mm**	Shall not be more than 10 mm
5	Compressive strength c) 3 days (average of three results)	**28.61 N/Sq mm**	Shall not be less than 27 N/Sqmm

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd RHS Ch:15.00m to Ch: 30.00m

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NC/QC/YPD/2020-21/BP-PCC5 **Date: 18-08-2021**

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	**100.00**	85-100	90 – 100
20mm	**53.25**	0 -20	30- 70
10mm	**18.95**	0 -5	10- 35
4.75mm	**3.90**	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	**96.10**	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	**81.65**	60-95	75-100	85-100	
01.18	**74.05**	30-70	55-90	75-100	
600.mic	**47.40**	15-34	35-59	60-79	
300.mic	**23.10**	5-20	8-30	12-40	
150.mic	**6.90**	0-10	0-10	0-10	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd RHS Ch:15.00m to Ch: 30.00m

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NC/QC/YPD/2020-21/BP-CB5 Date: 31-08-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-08-21	31-08-21	07	22500	305	13.56	**13.63**
	002	"	"	"	"	300	13.33	
	003	"	"	"	"	315	14.00	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch:15.00m to Ch: 30.00m

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NC/QC/YPD/2020-21/BP-CB5A

Date: 21-09-2021

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Drilling of borewells erection of pumpset, laying of pipeline and construction of water tank (GLR) in Ward no.05.}
Ref.: Material testing/PMC/20-21,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s M.S. Jathin Infra Pvt Ltd, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{15}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	24-08-21	21-09-21	28	22500	410	18.22	**18.15**
	002	"	"	"	"	415	18.44	
	003	"	"	"	"	400	17.78	

The result of the materials tested meets the standards and hence can be used for the work.
Sample Collected Site : 2nd A Cross Rd LHS Ch:15.00m to Ch: 30.00m

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